

**Attachment B**

**TABLE OF REFERENCES**

1. H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", *Plasma Sources Science and Technology*, submitted. [Copy provided in Attachment 70]
2. R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", *Chem. Phys. Letts.*, submitted. [Copy provided in Attachment 71]
3. R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", *Int. J. Hydrogen Energy*, submitted. [Copy provided in Attachment 72]
4. R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", *Int. J. Hydrogen Energy*, submitted. [Copy provided in Attachment 73]
5. R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", *New Journal of Physics*, submitted. [Copy provided in Attachment 74]
6. [Purposely Omitted].
7. R. L. Mills, P. Ray, " High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", *Int. J. Hydrogen Energy*, in press. [Copy provided in Attachment 75]
8. R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", *Proceedings of the 17<sup>th</sup> Annual Battery Conference on Applications and Advances*, California State University, Long Beach, CA, (January 15-18, 2002), in press. [Copy provided in Attachment 76]
9. R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", *IEEE Transactions on Plasma Science*, submitted. [Copy provided in Attachment 77]
10. R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer  $\alpha$  Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed

from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted. [Copy provided in Attachment 78]

11. R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted. [Copy provided in Attachment 79]
12. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer  $\alpha$  Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted. [Copy provided in Attachment 80]
13. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted. [Copy provided in Attachment 81]
14. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted. [Copy provided in Attachment 82]
15. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted. [Copy provided in Attachment 83]
16. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted. [Copy provided in Attachment 84]
17. R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press. [Copy provided in Attachment 85]
18. R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press. [Copy provided in Attachment 86]
19. R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer  $\alpha$  Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press. [Copy provided in Attachment 87]

20. R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press. [Copy provided in Attachment 88]
21. R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322. [Copy provided in Attachment 89]
22. R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192. [Copy provided in Attachment 90]
23. R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, *Hydrogen: The Common Thread*, The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697. [Copy provided in Attachment 91]
24. R. Mills, W. Good, A. Voigt, Jinquan Dong, "Minimum Heat of Formation of Potassium Iodo Hydride", Int. J. Hydrogen Energy, Vol. 26, No. 11, (2001), pp. 1199-1208.
25. R. Mills, "Spectroscopic Identification of a Novel Catalytic Reaction of Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 26, No. 10, (2001), pp. 1041-1058.
26. R. Mills, N. Greenig, S. Hicks, "Optically Measured Power Balances of Glow Discharges of Mixtures of Argon, Hydrogen, and Potassium, Rubidium, Cesium, or Strontium Vapor", Int. J. Hydrogen Energy, in press.
27. R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics", Global Foundation, Inc. Orbis Scientiae entitled *The Role of Attractive and Repulsive Gravitational Forces in Cosmic Acceleration of Particles The Origin of the Cosmic Gamma Ray Bursts*, (29th Conference on High Energy Physics and Cosmology Since 1964) Dr. Behram N. Kursunoglu, Chairman, December 14-17, 2000, Lago Mar Resort, Fort Lauderdale, FL, Kluwer Academic/Plenum Publishers, New York, pp. 243-258. [Copy provided in Attachment 92]
28. R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics", Int. J. Hydrogen Energy, in press. [Copy provided in Attachment 93]
29. R. Mills and M. Nansteel, P. Ray, "Argon-Hydrogen-Strontium Discharge Light Source", IEEE

Transactions on Plasma Science, in press.

30. R. Mills, B. Dhandapani, M. Nansteel, J. He, A. Voigt, "Identification of Compounds Containing Novel Hydride Ions by Nuclear Magnetic Resonance Spectroscopy", Int. J. Hydrogen Energy, Vol. 26, No. 9, (2001), pp. 965-979.
31. R. Mills, "BlackLight Power Technology-A New Clean Energy Source with the Potential for Direct Conversion to Electricity", Global Foundation International Conference on "Global Warming and Energy Policy", Dr. Behram N. Kursunoglu, Chairman, Fort Lauderdale, FL, November 26-28, 2000, Kluwer Academic/Plenum Publishers, New York, pp. 1059-1096. [Copy provided in Attachment 94]
32. R. Mills, "The Nature of Free Electrons in Superfluid Helium--a Test of Quantum Mechanics and a Basis to Review its Foundations and Make a Comparison to Classical Theory", Int. J. Hydrogen Energy, Vol. 26, No. 10, (2001), pp. 1059-1096. [Copy provided in Attachment 95]
33. R. Mills, M. Nansteel, and Y. Lu, "Excessively Bright Hydrogen-Strontium Plasma Light Source Due to Energy Resonance of Strontium with Hydrogen", Plasma Chemistry and Plasma Processing, submitted.
34. R. Mills, J. Dong, Y. Lu, "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, Vol. 25, (2000), pp. 919-943.
35. R. Mills, "Observation of Extreme Ultraviolet Emission from Hydrogen-KI Plasmas Produced by a Hollow Cathode Discharge", Int. J. Hydrogen Energy, Vol. 26, No. 6, (2001), pp. 579-592.
36. R. Mills, "Temporal Behavior of Light-Emission in the Visible Spectral Range from a Ti-K<sub>2</sub>CO<sub>3</sub>-H-Cell", Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 327-332.
37. R. Mills, T. Onuma, and Y. Lu, "Formation of a Hydrogen Plasma from an Incandescently Heated Hydrogen-Catalyst Gas Mixture with an Anomalous Afterglow Duration", Int. J. Hydrogen Energy, Vol. 26, No. 7, (2001), pp. 749-762.
38. R. Mills, M. Nansteel, and Y. Lu, "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance", Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 309-326.
39. R. Mills, *The Grand Unified Theory of Classical Quantum Mechanics*, September 2001 Edition,

BlackLight Power, Inc., Cranbury, New Jersey, Distributed by Amazon.com. [Copy of book Attached]

40. R. Mills, B. Dhandapani, N. Greenig, J. He, "Synthesis and Characterization of Potassium Iodo Hydride", Int. J. of Hydrogen Energy, Vol. 25, No. 12, December, (2000), pp. 1185-1203.
41. R. Mills, "Novel Inorganic Hydride", Int. J. of Hydrogen Energy, Vol. 25, (2000), pp. 669-683.
42. R. Mills, B. Dhandapani, M. Nansteel, J. He, T. Shannon, A. Echezuria, "Synthesis and Characterization of Novel Hydride Compounds", Int. J. of Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 339-367.
43. R. Mills, "Highly Stable Novel Inorganic Hydrides", Journal of New Materials for Electrochemical Systems, in press.
44. R. Mills, "Novel Hydrogen Compounds from a Potassium Carbonate Electrolytic Cell", Fusion Technology, Vol. 37, No. 2, March, (2000), pp. 157-182.
45. R. Mills, "The Hydrogen Atom Revisited", Int. J. of Hydrogen Energy, Vol. 25, No. 12, (2000), pp. 1171-1183. [Copy provided in Attachment 96]
46. R. Mills, W. Good, "Fractional Quantum Energy Levels of Hydrogen", Fusion Technology, Vol. 28, No. 4, November, (1995), pp. 1697-1719.
47. R. Mills, W. Good, R. Shaubach, "Dihydrido Molecule Identification", Fusion Technology, Vol. 25, 103 (1994).
48. R. Mills and S. Kneizys, Fusion Technol. Vol. 20, 65 (1991).
49. Haus, H. A., "On the radiation from point charges", American Journal of Physics, 54, (1986), pp. 1126-1129.
50. H. J. Maris, Journal of Low Temperature Physics, Vol. 120, (2000), p. 173.
51. C. A. Fuchs and A. Peres, "Quantum Theory Needs No "Interpretation", Physics Today, March (2000), p. 70.
52. F. Dyson, "Feynman's proof of Maxwell equations", Am. J. Phys., Vol. 58, (1990), pp. 209-211.
53. J. Horgan, "Quantum Philosophy", Scientific American, July, (1992), pp. 94-104.
54. M. M. Waldrop, Science, Vol. 242, December, 2, (1988), pp. 1248-1250.
55. S. Durr, T. Nonn, G. Rempe, Nature, September 3, (1998), Vol. 395, pp. 33-37.

56. R. L. Finney, D. R. Ostberg, R. G. Kuller, *Elementary Differential Equations*, Addison-Wesley Publishing Company, Reading Massachusetts, (1976), Chp. 7.
57. H. Margenau, G. M. Murphy, *The Mathematics of Chemistry and Physics*, D. Van Nostrand Company, Inc., New York, (1943), pp. 77-78.
58. Niedra, J., Meyers, I., Fralick, G. C., and Baldwin, R., "Replication of the Apparent Excess Heat Effect in a Light Water-Potassium Carbonate-Nickel Electrolytic Cell, NASA Technical Memorandum 107167, February, (1996). pp. 1-20.; Niedra, J., Baldwin, R., Meyers, I., NASA Presentation of Light Water Electrolytic Tests, May 15, 1994.
59. V. Noninski, *Fusion Technol.*, Vol. 21, 163 (1992).
60. F. Laloë, Do we really understand quantum mechanics? Strange correlations, paradoxes, and theorems, *Am. J. Phys.* 69 (6), June 2001, 655-701.
61. N. V. Sidgwick, *The Chemical Elements and Their Compounds*, Volume I, Oxford, Clarendon Press, (1950).
62. M. D. Lamb, *Luminescence Spectroscopy*, Academic Press, London, (1978).
63. L. I. Ponomarev, "Muon catalyzed fusion", *Contemporary Physics*, Vol. 31, No. 4, (1990), pp. 219-245.
64. J. Zmeskal, P. Kammel, A. Scrinzi, W. H. Breunlich, M. Cargnelli, J. Marton, N. Nagele, J. Werner, W. Bertl, and C. Petitjean, "Muon-catalyzed dd fusion between 25 and 150 K: experiment," *Phys. Rev. A*, Vol. 42, (1990), pp. 1165-1177.
65. D. A. McQuarrie, *Quantum Chemistry*, University Science Books, Mill Valley, CA, (1983).
66. A. Einstein, *Phys. Z.*, Vol. 18, (1917), 121.
67. A. L. Schawlow and C. H. Townes, *Phys. Rev.*, (112), (1958), pp. 1940-1949.
68. "The Interview Carver Meade", *The American Spectator*, September/October, (2001), [www.gilder.com/AmericanSpectatorArticles/carver.htm](http://www.gilder.com/AmericanSpectatorArticles/carver.htm).
69. S. Patz, *Cardiovasc Interven Radiol.*, (1986), 8:25, pp. 225-237.
70. T. A. Abbott, D. J. Griffiths, *Am. J. Phys.*, Vol. 153, No. 12, (1985), pp. 1203-1211.
71. L. C. Shi, J. A.; J. Daboul and J. H. D. Jensen, *Z. Physik*, Vol. 265, (1973), pp. 455-478.
72. P. Pearle, "Classical electron Models", *Electromagnetism: Paths to Research*, edited by D. Teplitz, Plenum, New York, Chp. 7 Pt 6, "Radiationless Motion" (1982), pp. 237-240.

73. G. Goedecke, *Phys. Rev.*, Vol. 135B, (1964), pp. 281-288.
74. J. D. Jackson, Classical Electrodynamics, Second Edition, John Wiley & Sons, New York, (1962), p. 111.
75. W. Kolos and L. Wolniewicz, *J. Chem. Phys.*, Vol. 41, (1964), p. 3663; Vol. 49, (1968).
76. P. W. Atkins, Physical Chemistry, Second Edition, W. H. Freeman, San Francisco, (1982).
77. M. Karplus and R. N. Porter, *Atoms and Molecules an Introduction for Students of Physical Chemistry*, The Benjamin/Cummings Publishing Company, Menlo Park, California, (1970).
78. A. Beiser, *Concepts of Modern Physics*, Fourth Edition, McGraw-Hill Book Company, New York, (1978).
79. R. Mills, *The Grand Unified Theory of Classical Quantum Mechanics*, January 2000 Edition, BlackLight Power, Inc., Cranbury, New Jersey, Distributed by Amazon.com.
80. N. A. Bahcall, J. P. Ostriker, S. Perlmutter, P. J. Steinhardt, *Science*, May 28, 1999, Vol. 284, pp. 1481-1488.
81. See R. Mills, *The Grand Unified Theory of Classical Quantum Mechanics*, November 1995 Edition.
82. Jang-Jung Lee, Charles Evans & Associates Time-Of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report, CE&A Number 40150, March 18, 1994.
83. H. Wiesmann, Brookhaven National Laboratory, Department of Applied Science, Letter to Dr. Walter Polansky of the Department of Energy Regarding Excess Energy Verification at Brookhaven National Laboratory, October 16, 1991.
84. Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation." [Copy provided in Attachment 97]
85. David R. Linde, *CRC Handbook of Chemistry and Physics*, 79 th Edition, CRC Press, Boca Raton, Florida, (1998-9), p. 10-175 to p. 10-177.